

## **General Disclaimer**

### **One or more of the Following Statements may affect this Document**

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

THE NEW IDENTIFICATIONS OF THE VARIABLE STARS WITH THE STARS FROM  
THE "TWO-MICRON SKY SURVEY - A PRELIMINARY CATALOG" BY  
G. NEUGEBAUER et al. (IRC)

B. V. Kukarkin

Translation of "Novye identifikatsii peremennykh zvezd s zvezdami  
kataloga "Obzor neba na volne dva mikrona" G. Neugebauera (IRC),"  
Astronomicheskii Tsirkular, No. 6/4, February 14, 1972, pp 4-7

(NASA-TM-75422) THE NEW IDENTIFICATIONS OF  
THE VARIABLE STARS WITH THE STARS FROM THE  
"TWO-MICRON SKY SURVEY: A PRELIMINARY  
CATALOG" BY G. NEUGEBAUER ETAL. (IRC)  
(National Aeronautics and Space

N79-21967

HC A02 / MF A01  
Unclas  
G3/89 20261



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
WASHINGTON, D.C. 20546

MARCH 1979

THE NEW IDENTIFICATIONS OF THE VARIABLE STARS WITH THE STARS FROM  
THE "TWO-MICRON SKY SURVEY - A PRELIMINARY CATALOG"  
BY G. NEUGEBAUER et al. (IRC)

B. V. Kukarkin

Moscow, State Astronomical Institute imen; P. K. Shternberg

A comparison of the star catalogue of G. Neugebauer et al [4]  
[1] with the variable stars from the Third Edition of the  
"General Catalog of Variable Stars" [2] and the "57th Name  
List" [3] led to the detection of 163 new identifications.  
However, some of them, due to the great uncertainty of co-  
ordinates, were doubtful. We present below a table which is  
a list of 151 variable stars. The identification of 148 of  
them is beyond any doubt. The identification of 3 stars is  
quite probable, but requires further checking. In the first  
column of the table we present the number according to the  
Neugebauer Catalog (INC), in the second column — the name of  
the variable star. The asterisks next to the numbers indicate  
that there is a note at the end of the table.

INC	GCVS	INC	GCVS	INC	GCVS
-30104	ET Pup	00334	V482 Oph	+30379	PG Cyg
-30105	ET Pup	00428	V412 Aql	+30390*	V976 Cyg
-30365	V1280 Sgr	00436	V858 Aql	+30420	V557 Cyg
-30385*	V1988 Sgr	00452	V541 Aql	+30460	IN Vul
-30391	V2010 Sgr	00461	V568 Aql	+30466	V1058 Cyg
-26092	B CMa	+10050	IK Tau	+30473	FZ Peg
-20110	EL CMa	+10118	BN Mon	+30484*	RZ Peg
-20127	DU CMa	+10131	IN Mon	+30488	GK Peg
-20149	EV Pup	+10143	GX Mon	+40014	LG And
-20320	KV Sco	+10356	V1014 Oph	+40040	HL And
-20479	V1082 Sgr	+10365	V1111 Oph	+40134	IX Aur
-20480	V1984 Sgr	+10440	V685 Aql	+40205	RS LMi
-20483*	V2346 Sgr	+10497	ET Peg	+40228	AZ UMa
-20492*	V2363 Sgr	+10519	GM Peg	+40310	V566 Her
-20493	V2003 Sgr	+20045	TT Ari	+40312	V529 Her
-20524	V2059 Sgr	+20146	CG Gem	+40357	V942 Cyg
-20557	V2139 Sgr	+20168	CG Gem	+40362	V973 Cyg

<sup>1</sup>Numbers in the margin indicate pagination in the foreign  
text.

IRC	CCVS	IRC	CCVS	IRC	CCVS
-20562	AN Fgr	+20253	FU Com	+40396	V1183 Cyg
-10143	V523 Mon	+20331	CF Her	+40421	V562 Cyg
-10148	BQ Mon	+20359	V354 Her	+40438	V1201 Cyg
-10169	KQ Pup	+20393	CG Vul	+40455	V1056 Cyg
-10177	GO Pup	+20444*	V429 Aql	+40467	V1059 Cyg
-10260	SV Vir	+20468	IK Vul	+40479	V1070 Cyg
-10299	EN Vir	+20470*	RS Del	+40484	V624 Cyg
-10320	IS Lib	+20479	ES Del	+50015*	V414 Cas
-10353	V1055 Oph	+20483*	GU Del	+50024	EH And
-10409	ES Ser	+20486*	FI Vul	+50029	EI And
-10466	GZ Sct	+20527	GI Peg	+50030	HV Cas
-10500	DZ Aql	+20541	GO Peg	+50113	FV Per
-10609	W Cet	+30090	IU Tau	+50154	LO Aur
00071	V535 Ori	+30136	DS Aur	+50166	KT Aur
00110	CC Mon	+30159	IK Gem	+50236	ZZ Cyg
00114	V485 Mon	+30167	IS Gem	+50254	V449 Her
00116	V492 Mon	+30184	XX Gem	+50261	WZ Dra
00127	DF Mon	+30276	SY CrB	+50280	AL Del
00130	DI Mon	+30362	OU Lyr	+50302	V927 Cyg
00132	V517 Mon	+30365	OV Lyr	+50336	V1202 Cyg
00277	DX Ser	+30369	V847 Cyg	+50361	V1063 Cyg
00318	V935 Oph	+30371	V1125 Cyg	+50370*	V592 Cyg
+50394	V1088 Cyg	+60285	V786 Cyg	+60424*	EM Cas
+50427	FW Lac	+60239	V1195 Cyg	+70032	V391 Cas
+50440	GI Lac	+60314	CS Cep	+70033	V393 Cas
+50449	FO Lac	+60315	FZ Cep	+70056	AP Cam
+50460	ES And	+60336	GN Cep	+70102	VX UMa
+50470	GG And	+60366	GR Cep	+70137	AZ Dra
+60015	FZ Cas	+60388	CU Cep	+70170	AX Cep
+60034	HO Cas	+60402	V398 Cyg	+70178	CT Cep
+60045	PP Cas	+60403	V353 Cas	+80005	AG Cep
+60085	PR Per	+60407	V356 Cas	+80017	WZ Cam
+60101	CS Cas	+60412	DS Cas	+80045	GH Cep
+60198	v UMa				

[Notes on page 3]

- Notes: -30385 Identification with LP Sgr incorrect. 16  
-20483 Identification with V 1661 Sgr incorrect.  
-20492 Identification with V 1680 Sgr incorrect.  
+20444 Identification with V 744 Aql incorrect.  
+20470 Identification with RT Del incorrect.  
+20483 Total brightness of two stars measured, southern component named GU Del, northern component also changes.  
+20486 Identification with FL Vul incorrect.  
+30390 Identification with EQ Cyg incorrect.  
+30484 Identification with RY Peg incorrect.  
+50016, +50370 and +60424 Identification quite probable, but requires further verification.

Furthermore, 475 stars of IRC were identified with stars of two catalogs of stars, the variability of which was suspected [4,5].

## REFERENCES

1. Neugebauer, G. and R. B. Leighton, Two-Micron Sky Survey, a Preliminary Catalog, NASA, Washington, 1969.
2. "Obshiy katalog peremennykh zvezd", General Catalog of Variable Stars, Vol. 3, Moscow, 1971.
3. "57th Name-List of Variable Stars," IBVS No. 480, Budapest, 1970.
4. "Katalog zvezd zapodozrennykh v peremennosti," Catalog of Stars Suspected of Being Variable, Moscow, 1951.
5. "Vtoroy katalog zvezd zapodozrennykh v peremennosti," Second Catalog of Stars Suspected of Being Variable, Moscow, 1965.